Hydra Renewable Resources, Inc.



Creating A New Profit Paradigm in Used Water Management



To Make Money

- Revenue from
 - Energy
 - Water
- Triple bottom line social /environmental / economic
 - Hydra
 - Newmarket





New Water & Energy Center

- No Risk to the Community
- We Bring all of the Capital
- Insurance Based Performance Guarantee
 - Technology
 - Partners
- Indoor Facility
- Rail Service
- Professional Management





We Solve Problems

- Meet / Exceed EPA Expectations
- Eliminate Town Expenses
 - New WWTP \$18 Million
 - Annual Operating \$1.4 Million





Create NH based PPE

- 25% equity to Newmarket
 - \$ 5 million / year dividend
 - \$100 Million over 20 years
 - Board Participation in Management
- \$10 Million Maintenance for Collection System
- Create New Jobs





Bigger Tax Base

 Wilson Property Back on the Tax Roll





Fixed Costs

 Lock in Current Sewer Rates for the Next 20 Years





An Annual Dividend

 Equal to Budget Revenue Raised by Property Tax

 Sufficient to Carry Capital Cost of \$35 Million School with money left over





The Choice is Yours





We Are...

Integrated Waste Resource & Recovery Management – WRW

Positioned at the Nexus of

Water

&

Energy



with

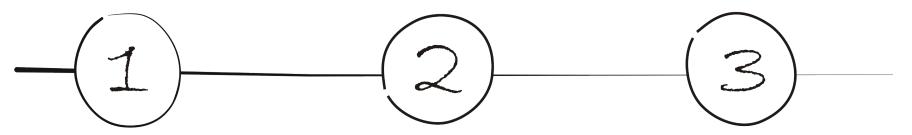
Used Water Processing as the Linchpin





We Are...

A Unique Three Part Processing Sequence



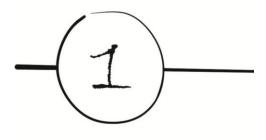
that Changes Forever the Paradigm of Wastewater Management





The Energy Utility

W2e



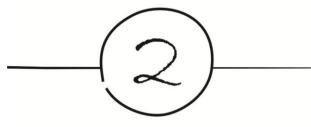
Sludge & RDF to Energy





The Water Utility





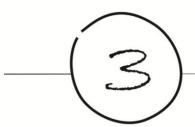
CBUM Filtration





The District Heat Utility



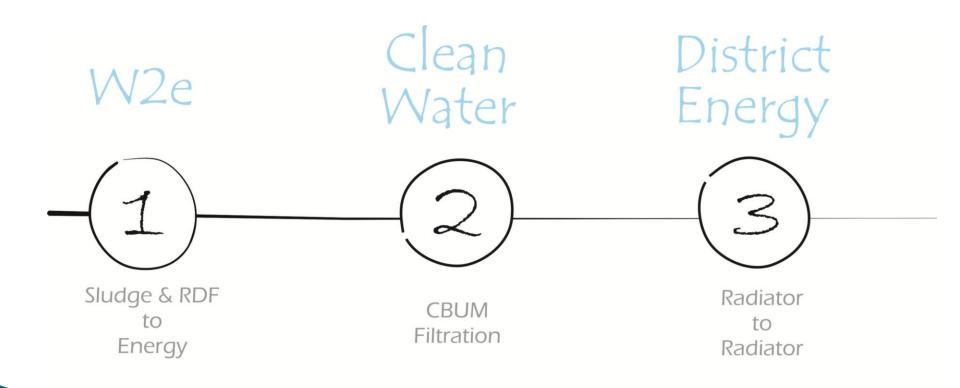


Radiator to Radiator





Integrated Waste Resource & Recovery Management

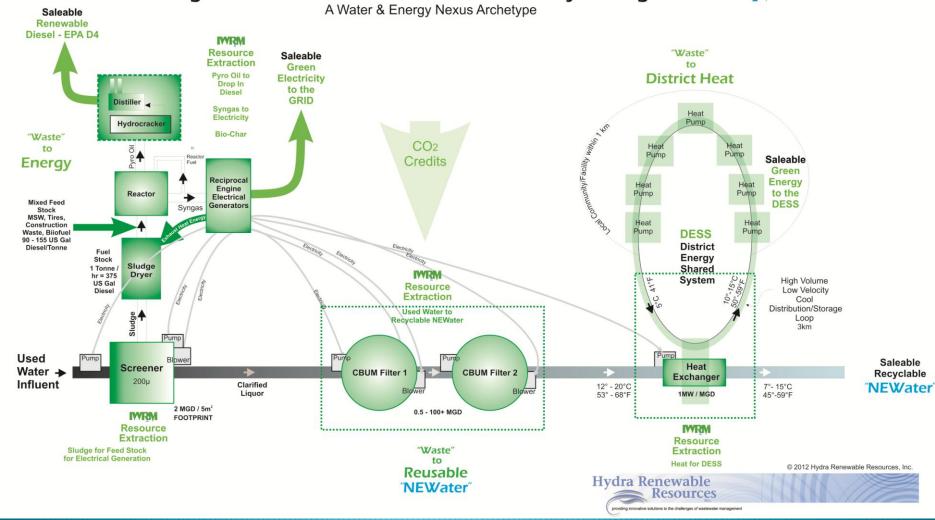






Hydra's Integrated Wastewater Resource & Recovery Management MRM

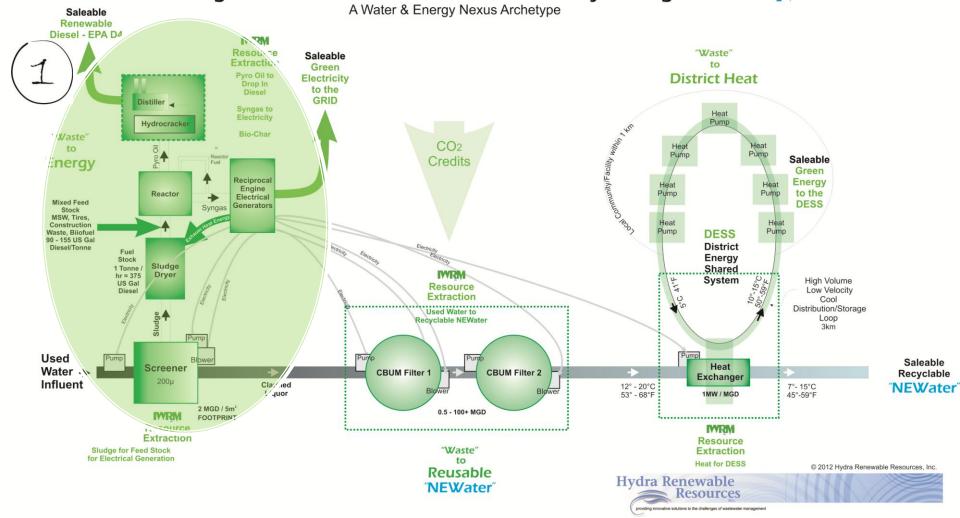






Hydra's Integrated Wastewater Resource & Recovery Management IMPM



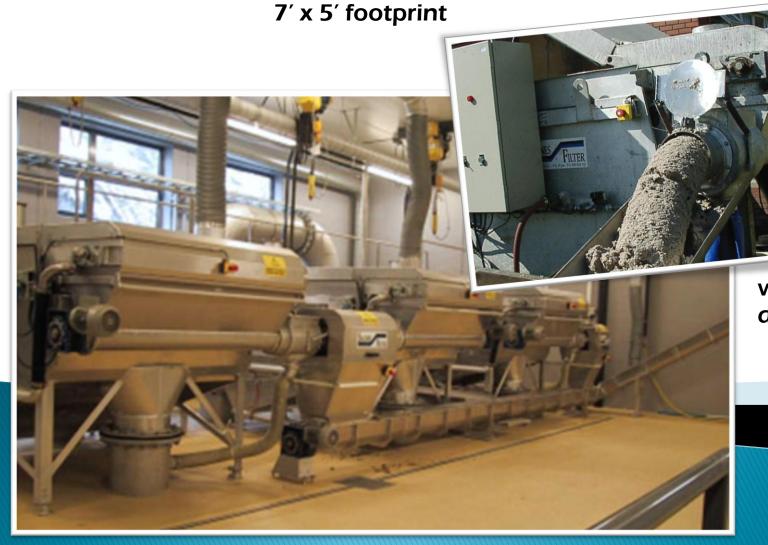


1- The Energy Utility₁₇



Hydra Preliminary Screeners Salsnes Filters

3 @1.8 MGD / 6,900 m³/d





VOMM 1700mm Sludge Dryers





Hydra ATR² Reactor & Distiller Bio-Green Reactor & Distillation Columns 200 ton/day

Bio-Green Reactor & Distillation Column 300 ton/day





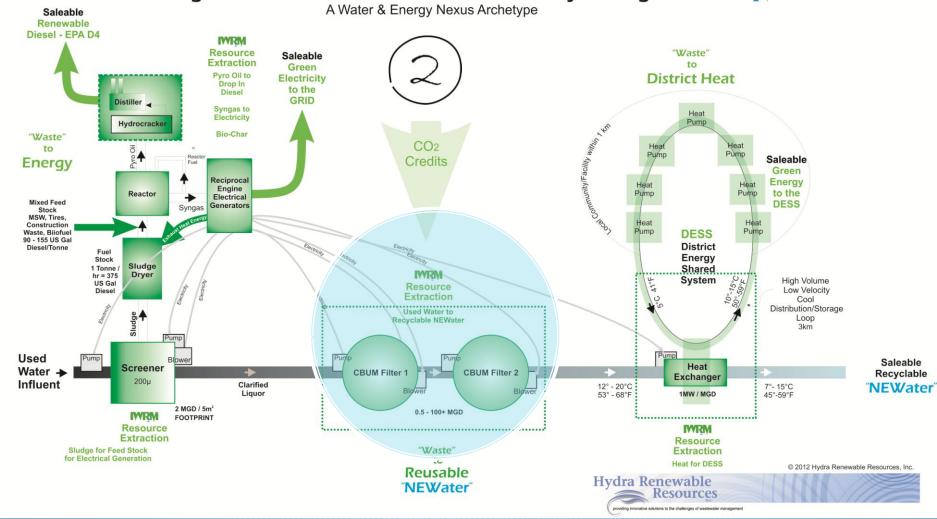


2.16 MW Configuration



Hydra's Integrated Wastewater Resource & Recovery Management IMRM







2.1 MGD CBUM Facility





Pre-Manufactured

and Modular







High treatment standards

Exceeds SBR, MBR, Activated Sludge...

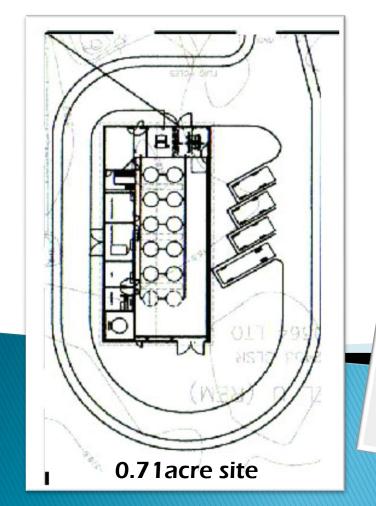
 $\begin{array}{ll} BOD_5 & \leq 5 \text{ mg/l} \\ TSS & \leq 5 \text{ mg/l} \\ Total \, Nitrogen & \leq 2.0 \, \text{mg/l} \\ Ammonia & \leq 1.0 \, \text{mg/l} \\ Phosphorous & \leq 0.1 \, \text{mg/l or less} \\ Fecal \, Coliform & \leq 2.2 \, MPN/100 \, \text{ml} \end{array}$

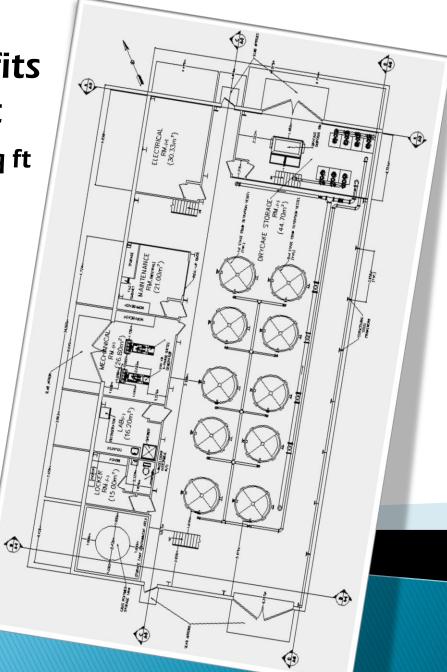
Effluent exceeds *EVERY* international standard for reclamation





1 MGD fits in just 6,500 sq ft





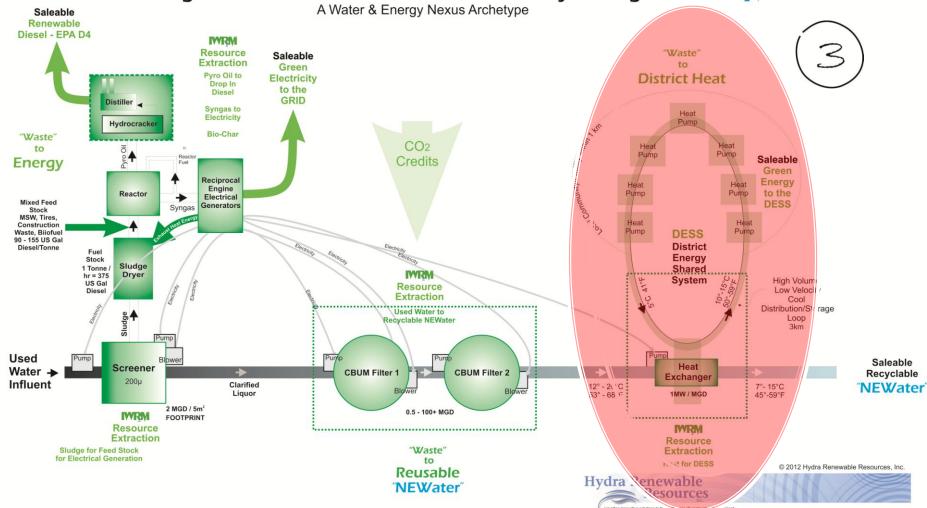


... and it can look good too!





Hydra's
Integrated Wastewater Resource & Recovery Management WRM



3 - The District Heating Utility 28



DESS Heat Echange

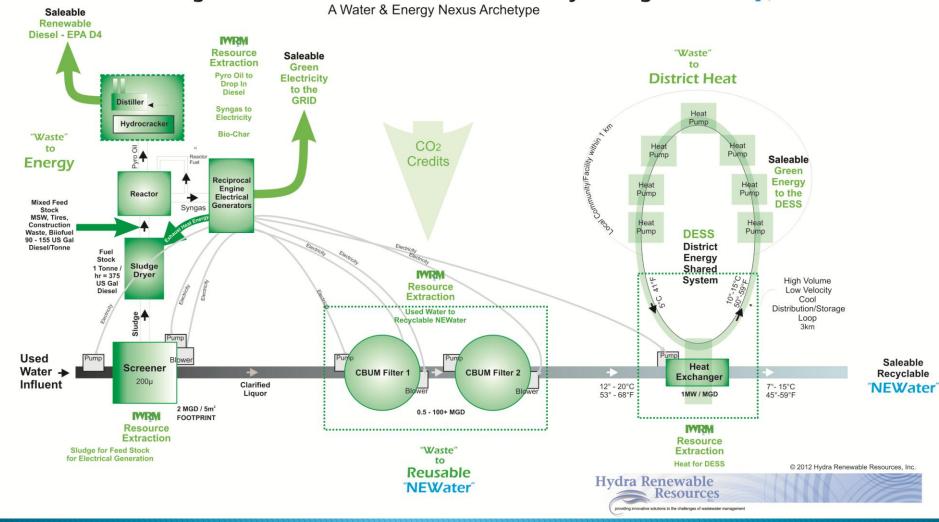
Radiator to Radiator Heat Exchange of Latent Energy in Processed Water





Hydra's Integrated Wastewater Resource & Recovery Management MRM





The New 21st C Paradigm 30



DFBOT

Design, Finance, Build, Operate & Transfer on 20 years

Project Financing
Project Management
Construction Management
Engineering & Environmental Design
Site infrastructure Construction
Systems Acquisition & Integration
Commissioning and Complete
Facilities Operation & Lifecycle Management





Operating Principles

- Focus on "Process Integration" rather than "Technology R&D"
- Leverage capabilities and knowledge of our US Based Suppliers our World Class Partners





Our Suppliers

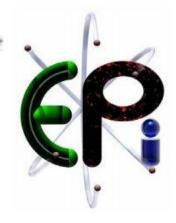






BLUE WATER TECHNOLOGIES







CCC GROUP, INC.





Our Partners

Project Management
Construction Management
Engineering Design
Architectural Design
Builders &
Facility Operations





Our Partners

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Capital Investment

Site Acquisition & Trunk Relocation	\$ 4,500,000	4.2%
Wastewater Treatment Equipment (8 Trains w/ 1 in Redundant Mode)	\$ 5,194,615	4.8%
Pumps and Ancillary Treatment Equipment	\$ 1,711,938	1.6%
Drying/Pyrolyzitation/Electrification Equipment (300 ton/day ATR ² w/2.0 MW capacity)	\$ 67,163,979	62.4%
Professional Services	\$ 13,450,000	12.5%
Treatment Center Buildings with Labs &Wet Wells (32 600 sq ft / 3 030m²)	\$ 8,767,364	8.1%
Insurance & Bonding	\$ 5,993,120	5.6%
Software Licence (\$ 10,000 / Train)	\$ 80,000	0.1%
Misc (travel etc.)	\$ 800,000	0.7%

Total

\$ 107,661,016





Revenue

Recycled Water Sales @ \$ 3.19 ccf - \$ 4.26 / 1,000 Gal @ 98% Recovery 1 MGD salable	\$ 1,619,396	3.2%
Green Electrical Sales no external sales assumed	\$ -	0.0%
Renewable Diesel Sales \$3.00 / Gal Rack Rate assumed PLUS \$1.00 RIN	\$ 45,538,860	91.3%
Bio-char Sales \$50 / ton	\$ 1,519,313	3.0%
Liquid Waste Tipping Fees (Sewage Service Fee) @ \$6.70 ccf \$ 8.98 / 1000 us Gal	\$ 859,770	1.7%
Solid Waste Tipping Fees no fees assumed	\$ -	0.0%
DESS Energy @\$0.039/kw (1 Mw/MGD)	<u>\$ 315,398</u>	0.6%

\$ 49,852,737





Expenses

Capital Investment Carrying Cost (\$116.3 MM @ 12% over 20 Yrs - DFBOT Model)	\$	15,363,309		72.1%
Management Fees per year (HYDRA FM \$25/hr custodial with benefits)	\$	2,636,785		12.4%
Newmarket Sewerage & WWTP Maintenance and Testing (Maint & Upgrade @ \$0.5 MM pa \$10 MM / 20 years)	\$	1,727,835		8.1%
Software Maintenance Fee (US\$ 2,000 / Train)	\$	16,000		0.1%
W2e Catalyst (Zeolite)	\$	1,511,663		7.1%
Chemicals	<u>\$</u>	46,566		0.2%
			<u>\$ 21,302,157</u>	Pay Back
Projected EBITDA per Annur	n		<u>\$ 28,550,580</u>	2.45





In Summary

Mature Facility

Revenue (000's) \$ 49,853 Expenses (000's) \$ 21,302

Projected EBITDA (2012 000's dollars) \$28,551

Newmarket Annual Dividend \$ 7,137



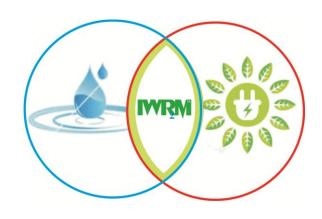


In Closing

- We Are Here to Make Money
- 2. We Will Create a New Water & Energy Center
- 3. We Will Address Some Newmarket Challenges
- 4. We Will Create A New Hampshire Based PPE
- We Will Create a Bigger Tax Base
- We Will Fix Sewer Rates for 20 Years
- 7. We Will Provide Annual Dividends to Newmarket







Questions?

